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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/759,535	01/20/2004	Harald Braun	095309.53124US	7103	
	23911 7:	7590 10/06/2006		EXAM	EXAMINER	
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP				DESCHERE,	DESCHERE, ANDREW M	
	P.O. BOX 1430			ART UNIT	PAPER NUMBER	
	WASHINGTON, DC 20044-4300			2836		
			<u> </u>	DATE MAILED: 10/06/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/759,535	BRAUN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew M. Deschere	2836				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	ldress			
Period for Reply	(IO OFT TO EVEIDE A MONTH	O) OD TUUDTY (0	0) DAYO			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 15 June 2004 is/are: a)□ accepted or b)⊠ objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	·					
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P	ГО-152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. ☐ Certified copies of the priority document	s have been received					
2. Certified copies of the priority document		on No				
3. Copies of the certified copies of the prior			Stage			
application from the International Bureau	•		•			
* See the attached detailed Office action for a list		ed.				
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U.S. Patent and Trademark O	ffice
PTOL-326 (Rev. 08-06	3)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 6/13/06.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. __

6) Other: _____.

5) Notice of Informal Patent Application

DETAILED ACTION

Drawings

The drawings are objected to because they lack textual labels. Examiner requests that labels be affixed to non-obvious block diagram components (elements 22, 70, 72, 58, etc. in Figure 1 and element 40 in Figure 2). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 1, 5, and 9 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. There is no single disclosed method where both the voltage reference variable (bounded by toque limit values) and the torque reference variable (bounded by voltage limit values) have tolerance bands. The claims assert both variables as independent.

Claims 1 and 5 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 and 5 recite the limitation "vehicle management". There is insufficient antecedent basis for this limitation in the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by US 6,504,327 (Omata). Omata discloses a control apparatus for a hybrid vehicle (Figure 1), including an engine 4 and a motor 6, which both have driving and generating functions. Main battery 38, a rechargeable battery, is connected to motor control means 22, which is then linked to engine control means 20. Torque requirements for power-generating and driving with a motor are set with upper and lower limits, determined by the voltage determined on a main battery (column 6, lines 31-51). Similarly, upper and lower voltage limits are determined for motor driving (column 4, lines 51-55). The control apparatus is responsive to different operating states of the vehicle's engine and motor (column 1, lines 21-25).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 and 6-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Omata and US 6,324,460 (Lehmer). Omata discloses a control apparatus for a hybrid vehicle with torque control of a motor, but does not teach that individual torques on vehicle wheels may be taken into account. Lehmer teaches the use of torque control at each individual wheel to provide stable vehicle handling. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize torque control on the individual wheels of Omata in order to provide safe vehicle handling in emergency situations.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- US 3,899,725 (Plunkett) discloses the use of both constant torque and constant power in an electric vehicle
- US 6,953,100 (Aberle) discloses both voltage and torque control in an electric vehicle
- US 6,757,598 (Okoshi) discloses torque control and voltage restriction in a hybrid vehicle

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M. Deschere whose telephone number is (571) 272-8391. The examiner can normally be reached on M-F 8:30-6:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMD

BRIAN SIRCUS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800